Social Contract 2020

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why is a new social contract required?

Data, along with Labor and Capital, is now the foundation of our society
MIT Trust Data Alliance
data insights across multiple private databases with minimum risk

“this will change everything”  UN Secretary General’s Office

• federated data with distributed query
• blockchain-based data control
• analytics on encrypted data

Participants in trust.mit.edu alliance
Social Contract 2020

1. Ownership Rights and Security
2. Governance and Social Fabric: Transparency, Responsibility
3. Digital Economy and Social Structure: Sustainability & Jobs
1. Ownership Rights and Security

Treat data more like money: tracked and audited continuously

Privacy is a special type of security
key insights:

share answers not data

log everything for auditing
fairness and correctness require full, continuous auditability
law.mit.edu

• Computational Law Report
  alliance of dozen law schools and civil organizations
2. Governance and Social Fabric: Transparency & Accountability
OPAL System:
Open Algorithms for Transparency and Accountability

- Cross organization/vertical sharing
- Privacy, consent, accountability
- Regulatory & compliance
- New incentive models

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addressing unemployment

abdullah almaatouq, alex pentland
diversity predicts local GDP growth
reduction in diversity predicts neighborhood crime

Kai Chong, Mohsen Bahrami, Alex Pentland
UN data revolution & sustainable development goals
3. Digital Economy and Social Structure

Sustainability: when transaction costs go to zero, economy becomes unstable, resulting in global winner-take-all

Social investment (health, education, infrastructure) is tied location and companies, so insufficient investment
ordinal tax: promotes local investment and innovation
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